

ABSTRACT OF THE DISCLOSURE

A rotary vane gas compressor has a cylinder, a rotor in the cylinder, and vanes slidably disposed in radial vane grooves in the rotor to define compression chambers for intaking, compressing and discharging compressed gas during rotation of the rotor. A flat groove communicates with bottom portions of the vane grooves during intaking and compression of the gas in the compression chambers, and a high pressure supplying hole communicates with the bottom portions of the vane grooves during end stage compression of the gas at times when the bottom portions of the vane grooves are not in communication with the flat groove. A communication passage establishes communication between the flat groove and the high pressure supplying hole at the start of operation of the gas compressor to supply high pressure gas to the vane groove bottom portions during start-up to quickly urge the vanes into contact with the cylinder.